

Title (en)
Method of forming connection hole

Title (de)
Verfahren zum Herstellen eines Verbindungsloches

Title (fr)
Méthode pour former un trou de connexion

Publication
EP 1608010 A2 20051221 (EN)

Application
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Priority
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Abstract (en)
A method of forming a connection hole, which includes the steps of: laminating an etching stopper film made of a SiN based material and an interlayer insulating film made of a SiO_x based material on a substrate in this order; forming an organic film pattern on the interlayer insulating film on the basis of a connection hole pattern; dry-etching the interlayer insulating film using the organic film pattern as a mask while keeping a selection ratio to the etching stopper film; a fourth step of removing a carbon based protective film which is deposited on an exposed surface of the etching stopper film by the dry etching, using an etching reactive system including an oxygen based chemical species; and a fifth step of completing a connection hole by selectively etching the etching stopper film. <IMAGE>

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EP 0746017 A2 19961204; **EP 0746017 A3 19990707**; EP 1557879 A2 20050727; EP 1557879 A3 20050810; EP 1608010 A2 20051221; JP H0950986 A 19970218; KR 960042975 A 19961221; MY 115808 A 20030930; US 5997757 A 19991207

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